

Figure 1

Figure 2A

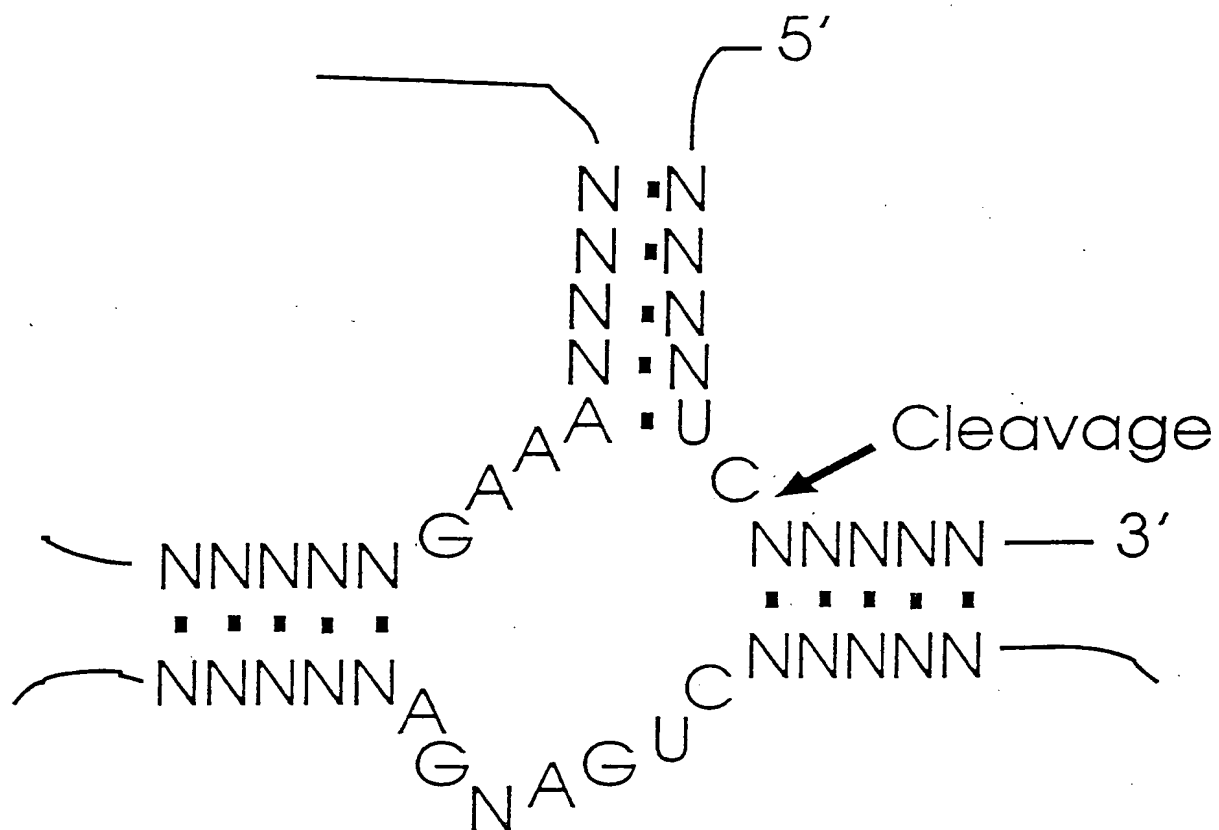
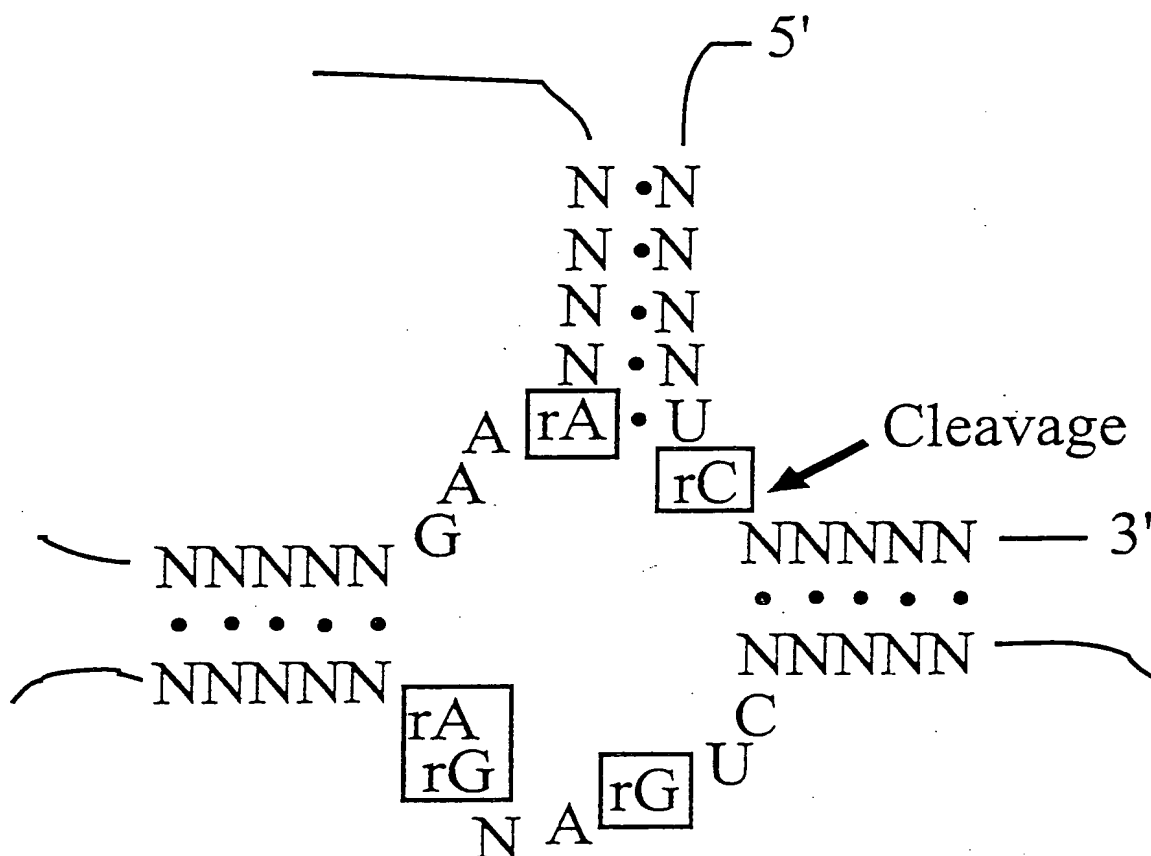
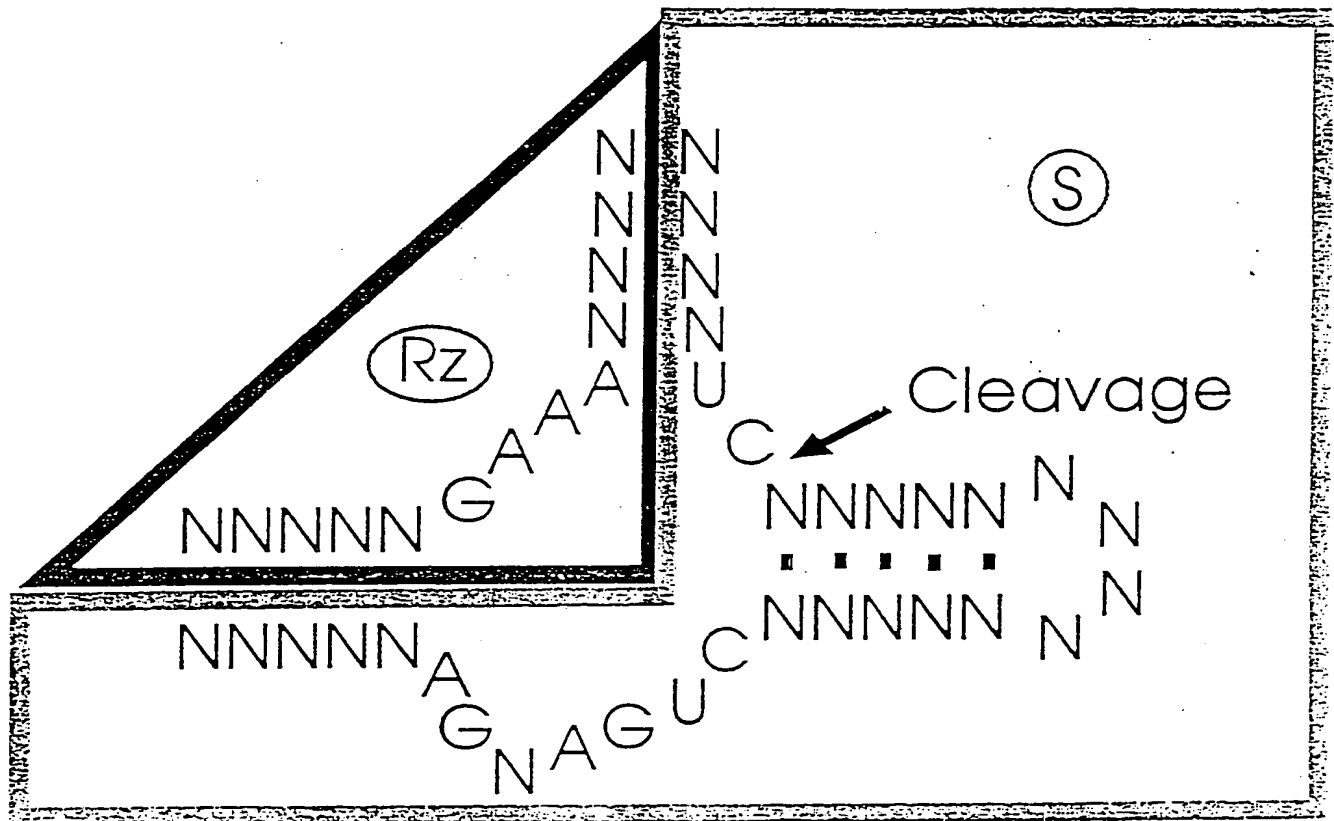


Figure 2B



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00000000000000000000000000000000

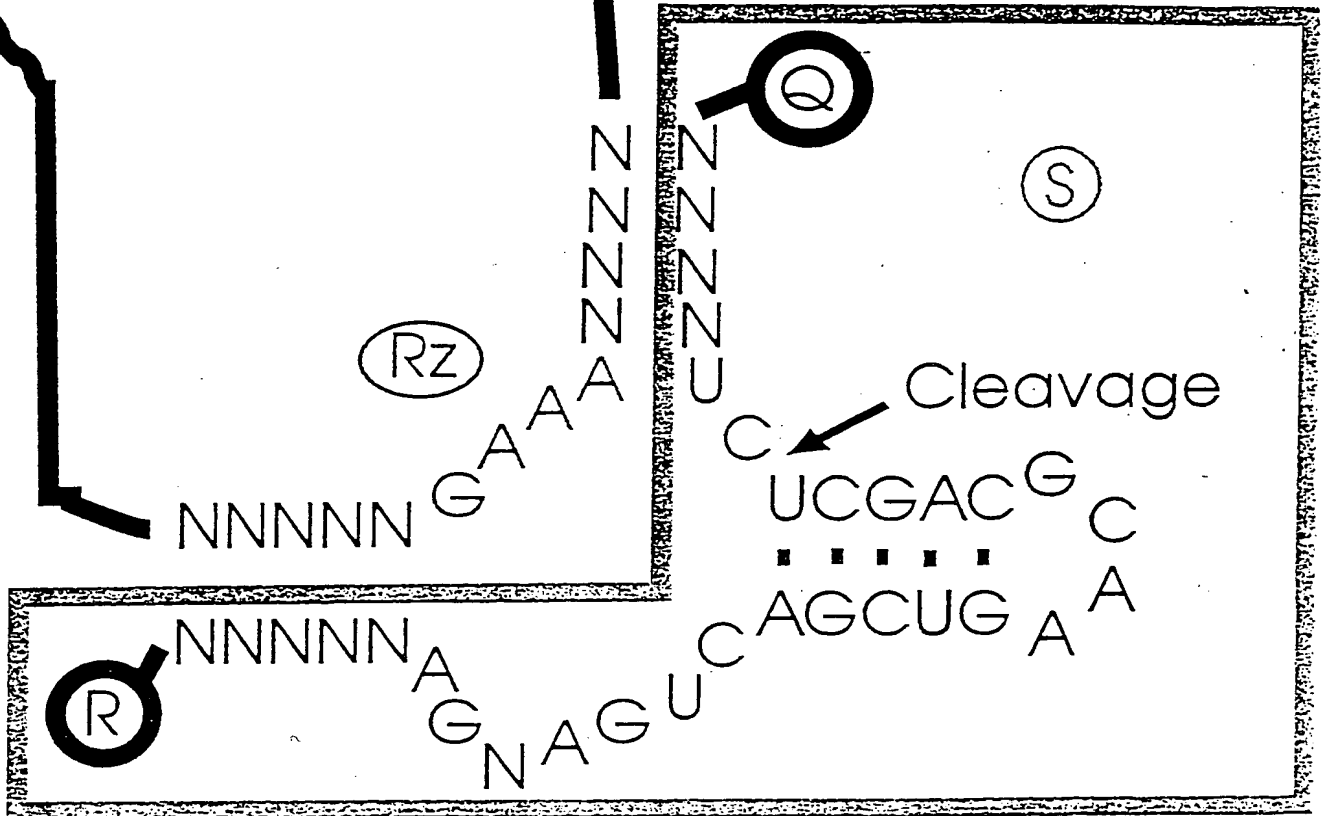
Figure 4A

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RNA

3'

5'



R = FAM
HEX
TET
ALEXA

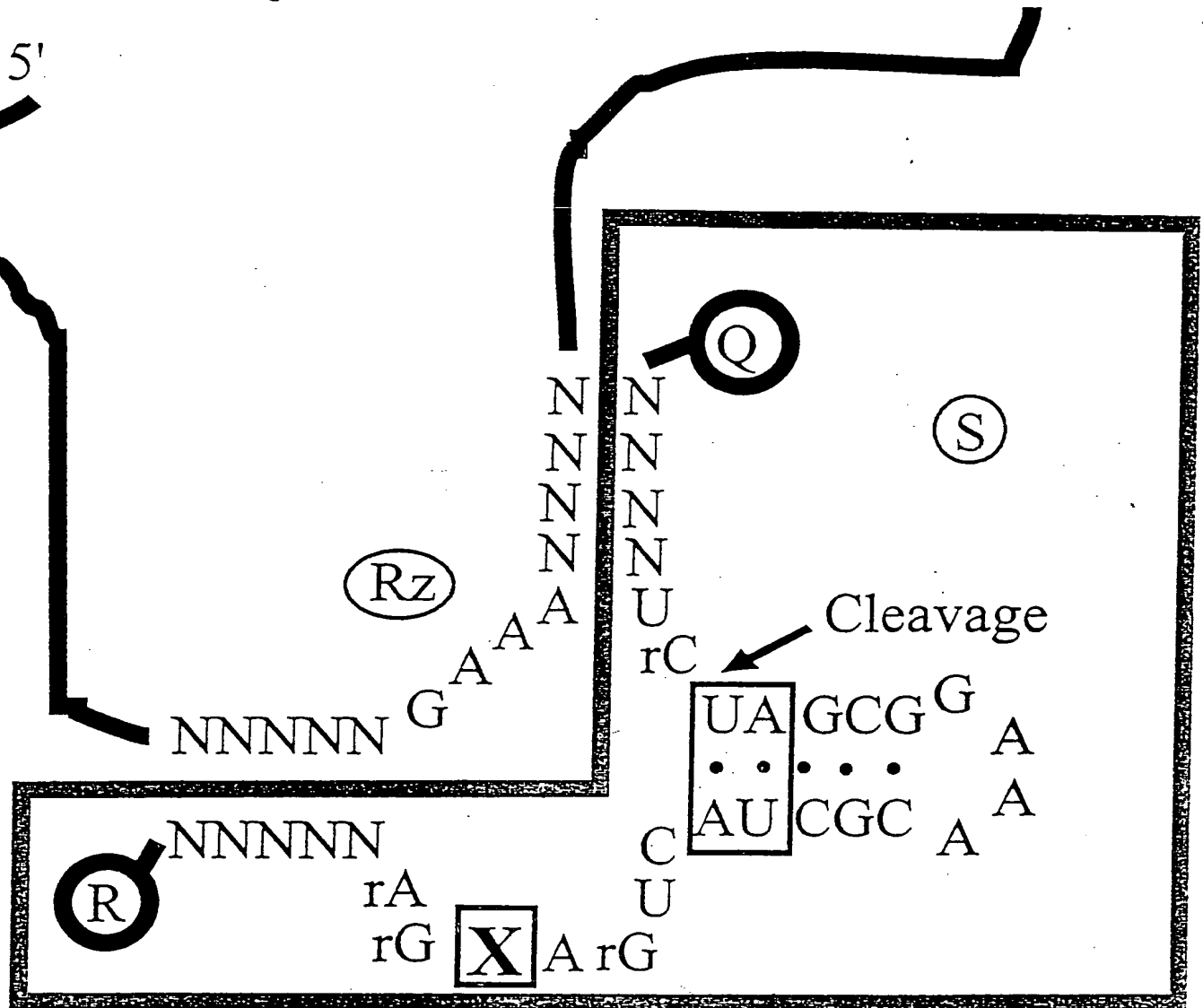
Q = TAMRA
CY-5
DABCYL
LCR
etc.

Figure 4B

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3'

5'



R = FAM
HEX
TET
ALEXA

Q = TAMRA
CY-5
DABCYL
LCR

etc.

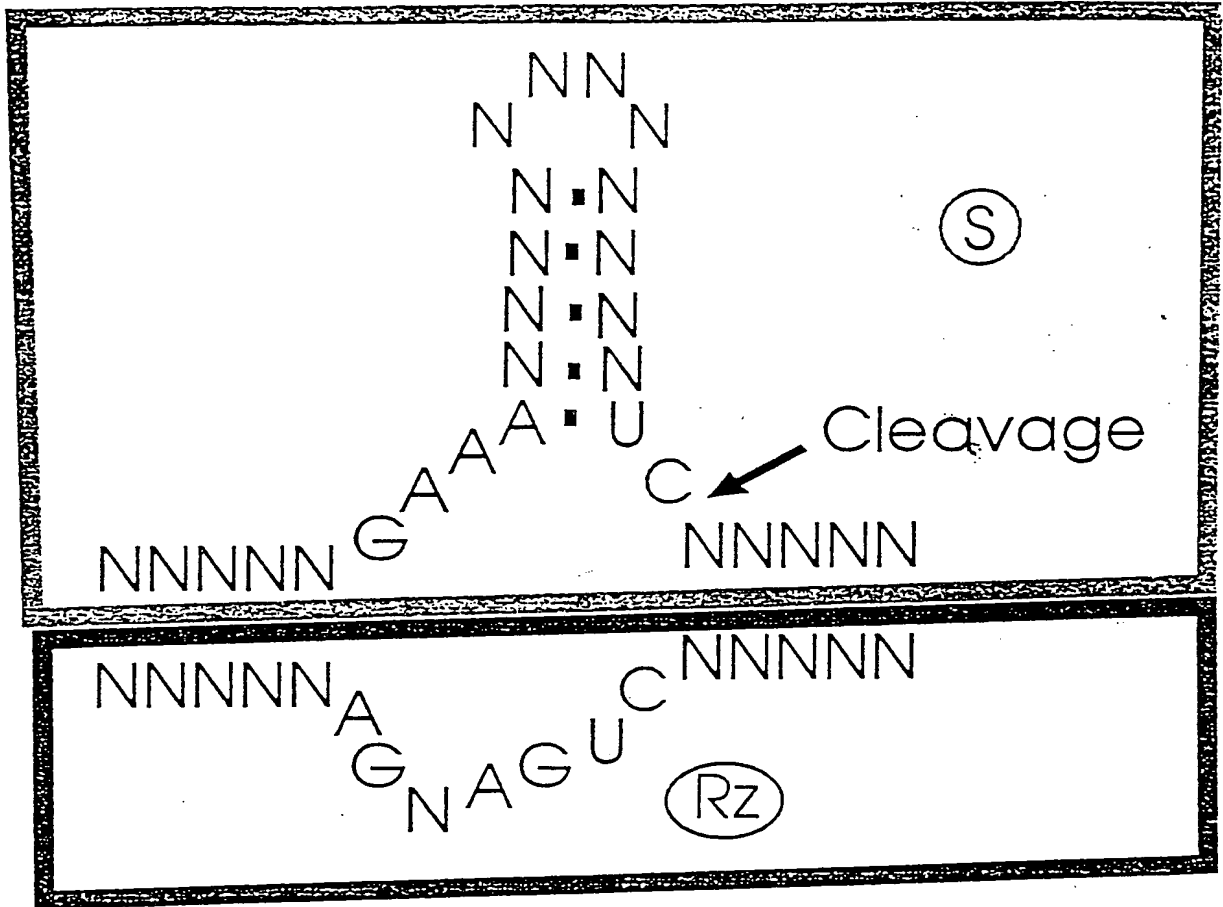
X = Pyridin-4-one

r = essential ribonucleotides

important: no (C,U)-A dinucleotide in loop

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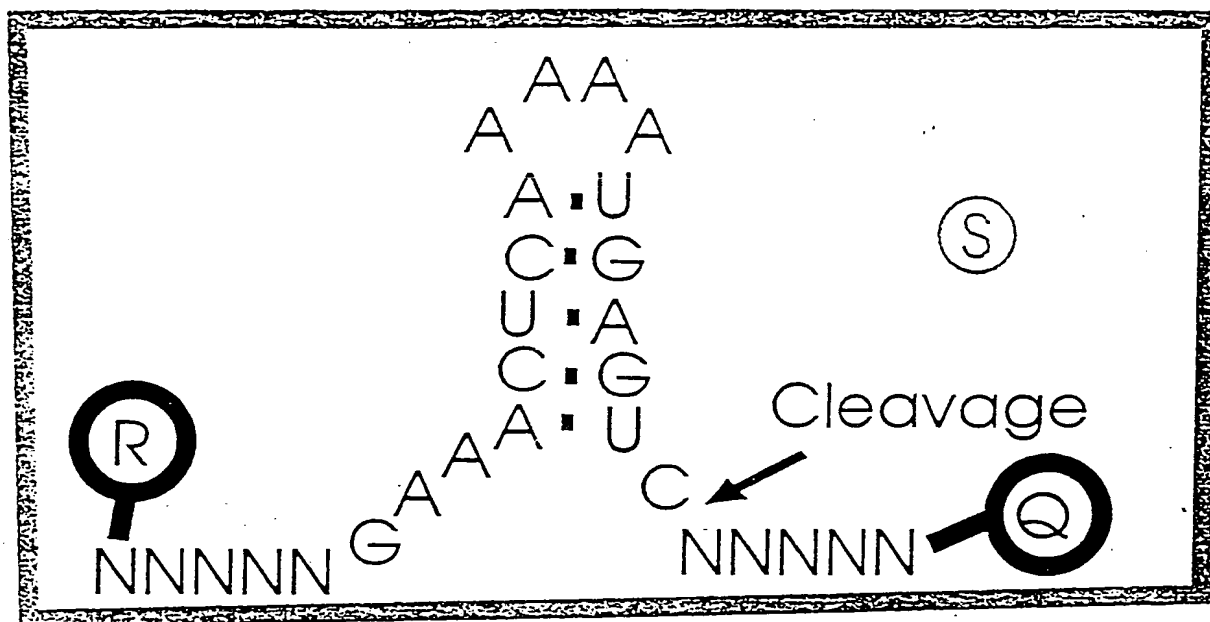
Figure 5



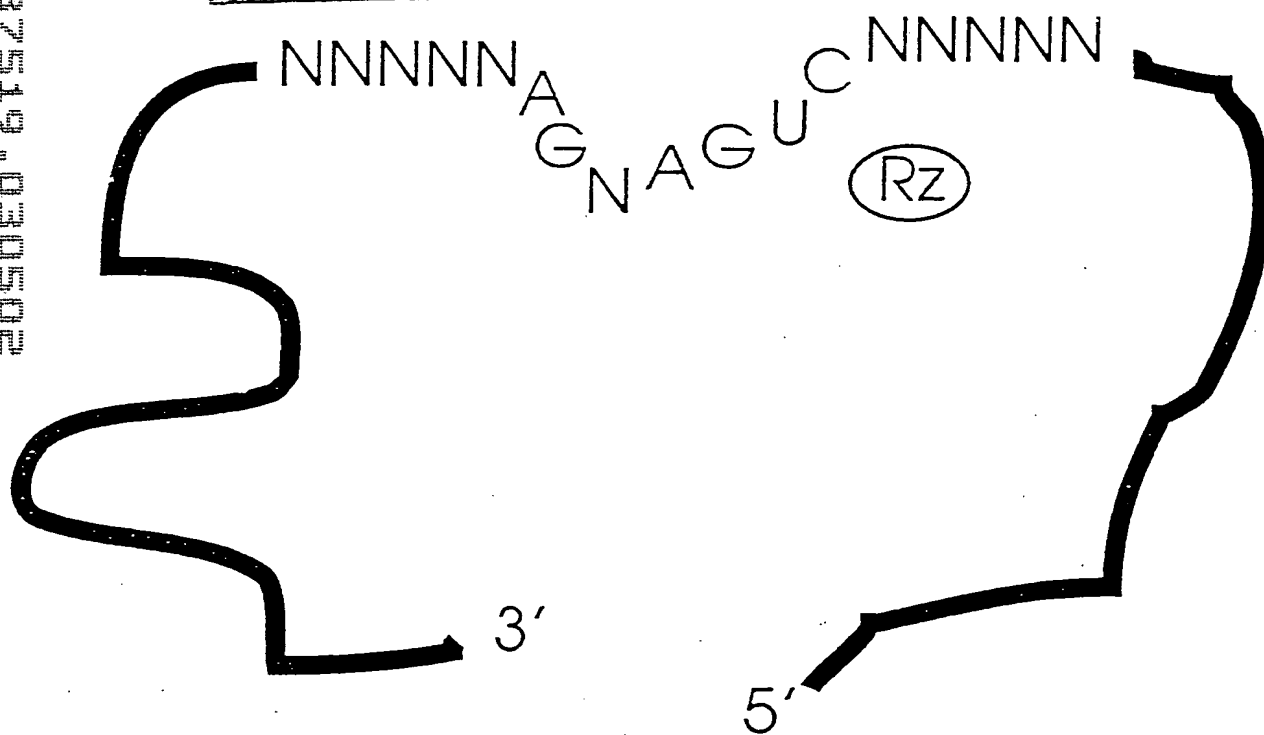
2050E0 6152E660

Figure 6

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09/937519-030502



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Figure 7

Reverse Primer

0937519.030502

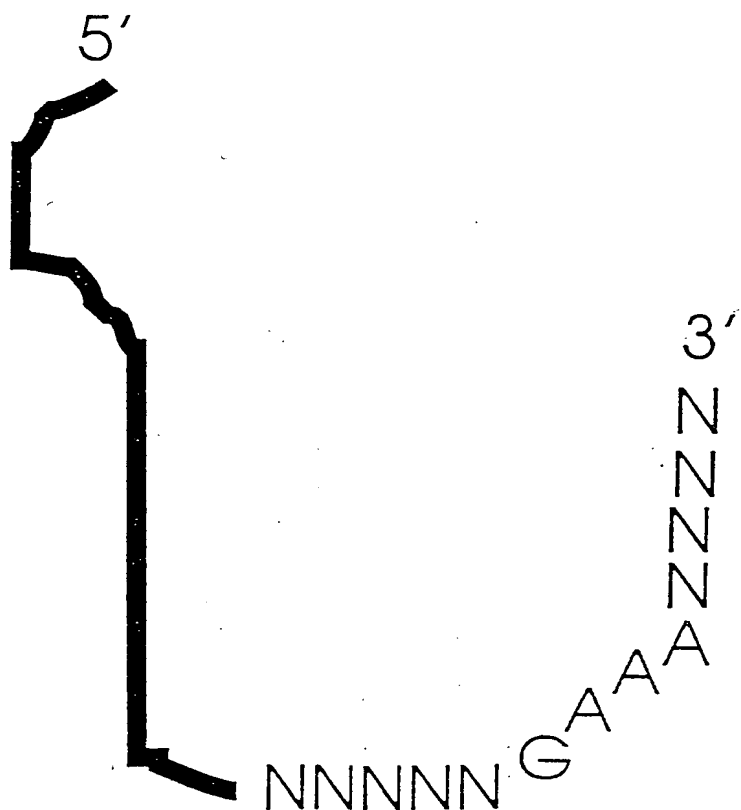
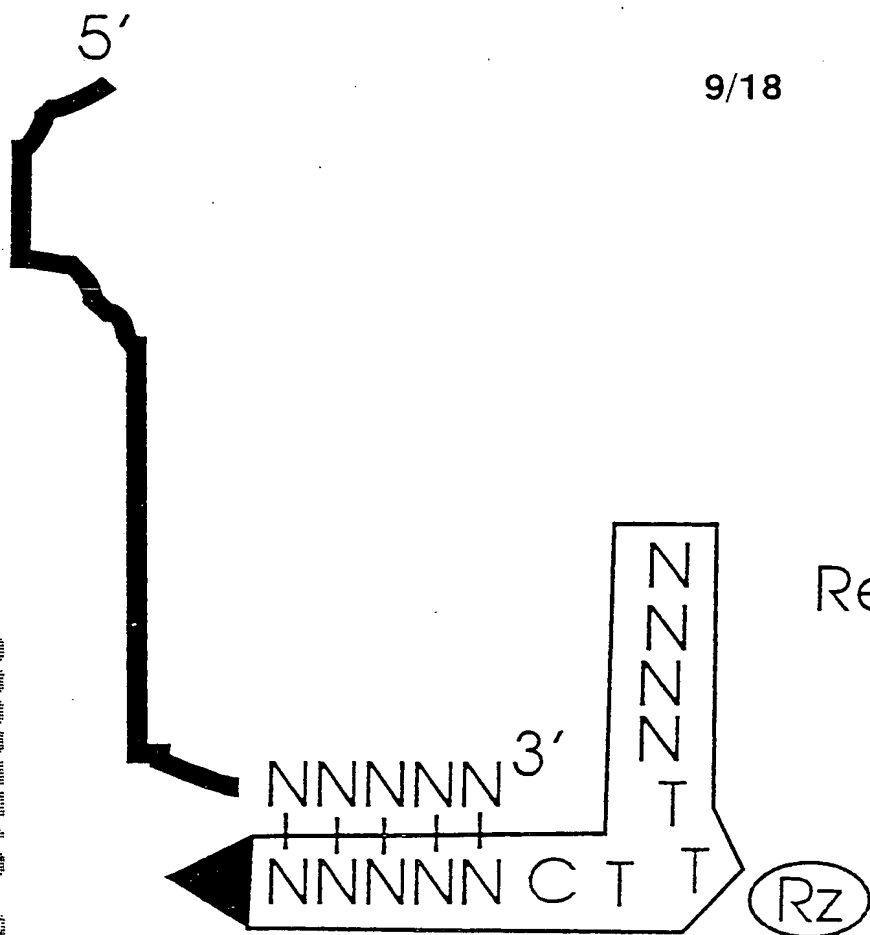
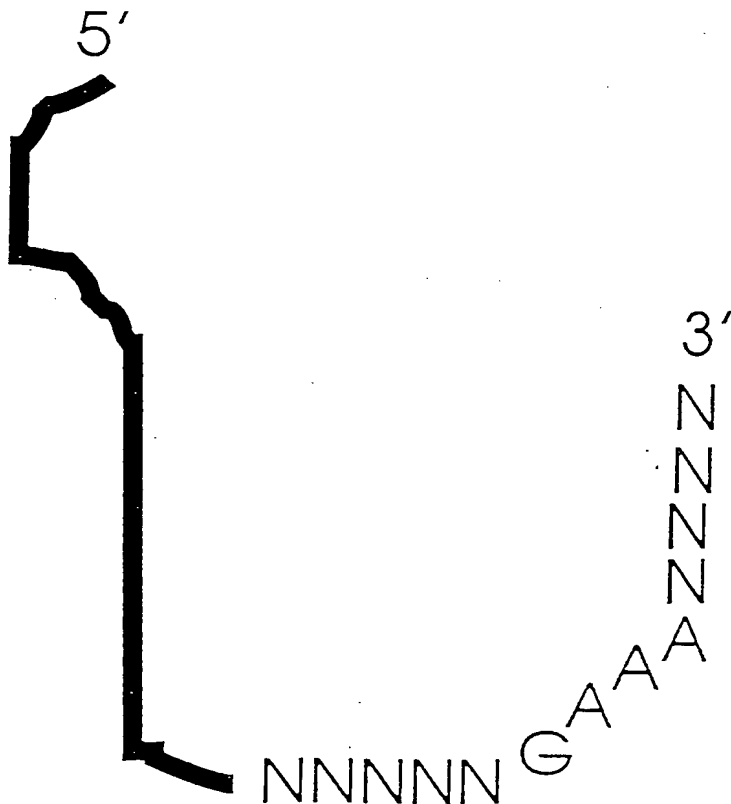
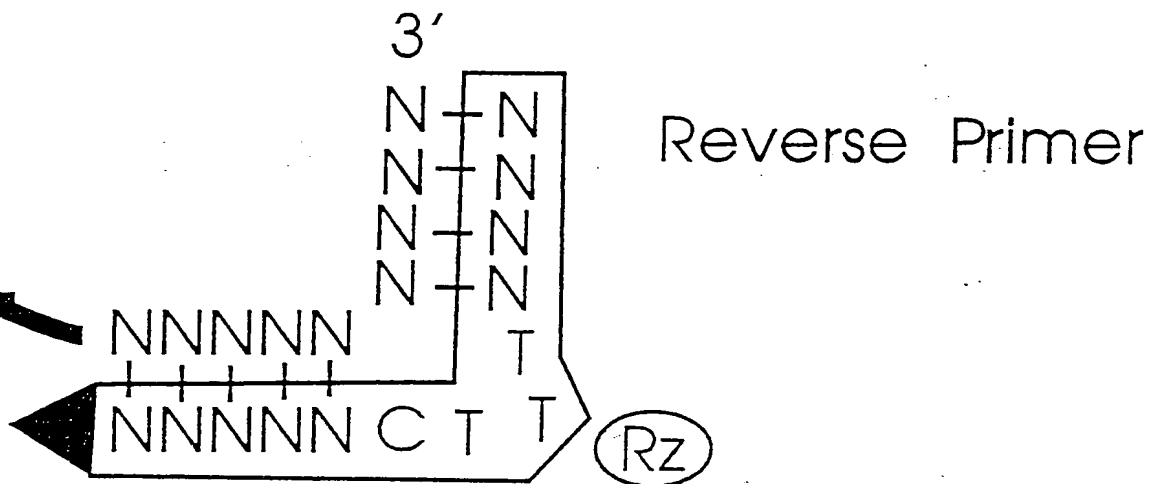
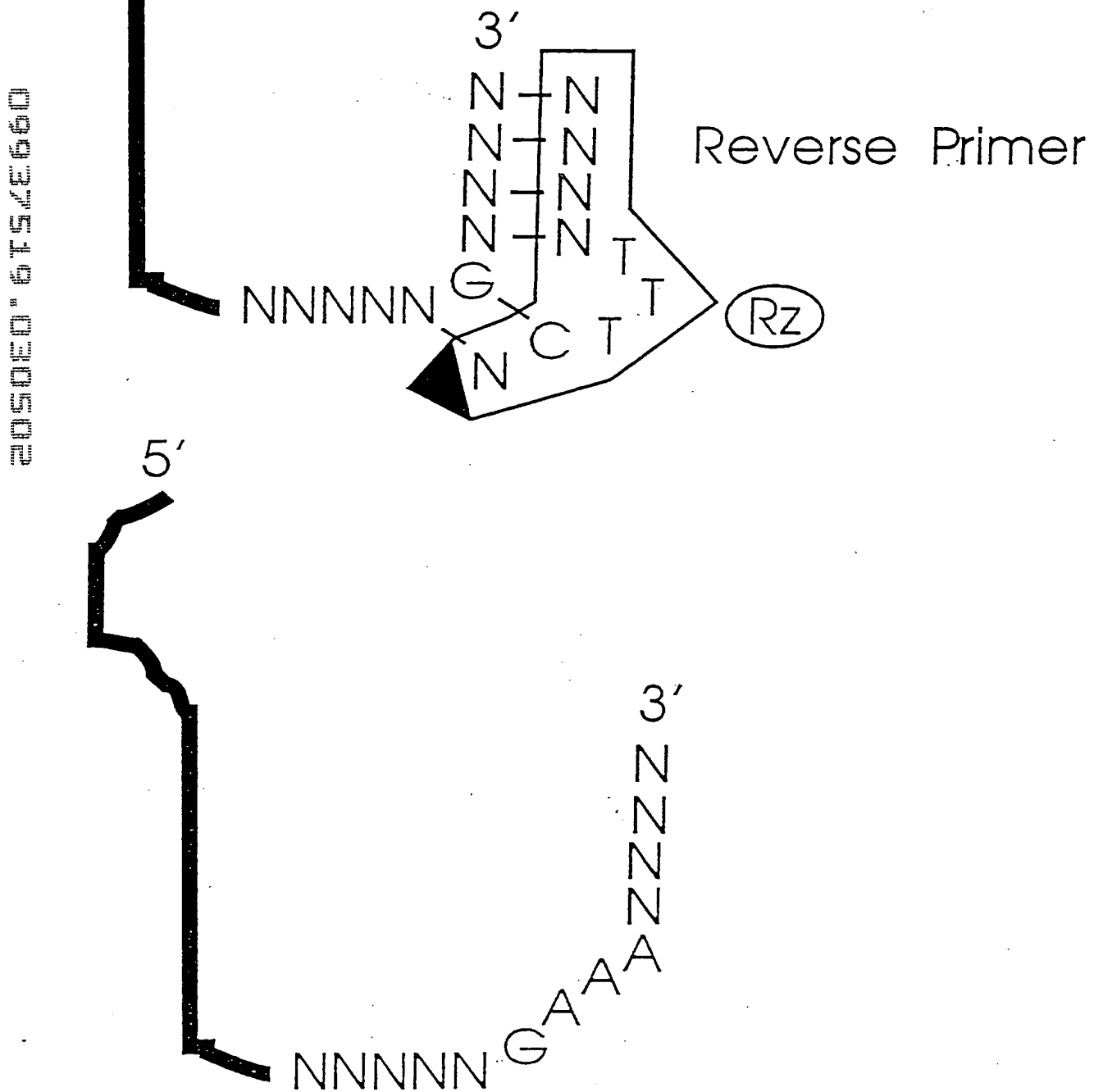


Figure 8



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Figure 9



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Figure 10

Chimeric Primer

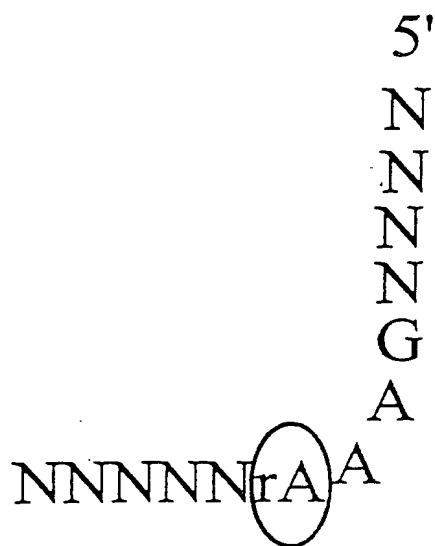
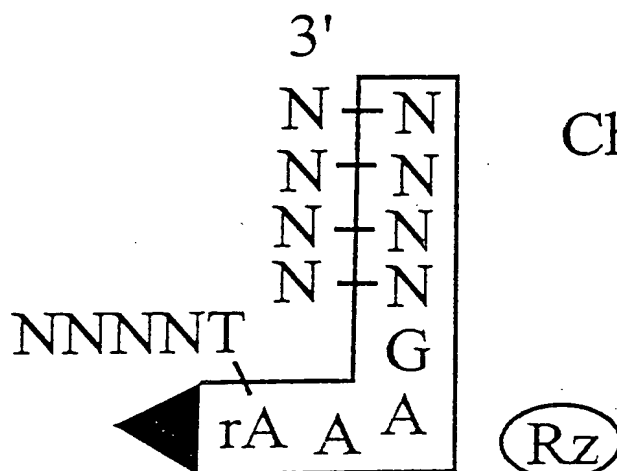


Figure 11

Chimeric Primer

$$\textcircled{Rz}$$

5
N
N
N
N
G
A

$$NNNNN(rA)^A$$

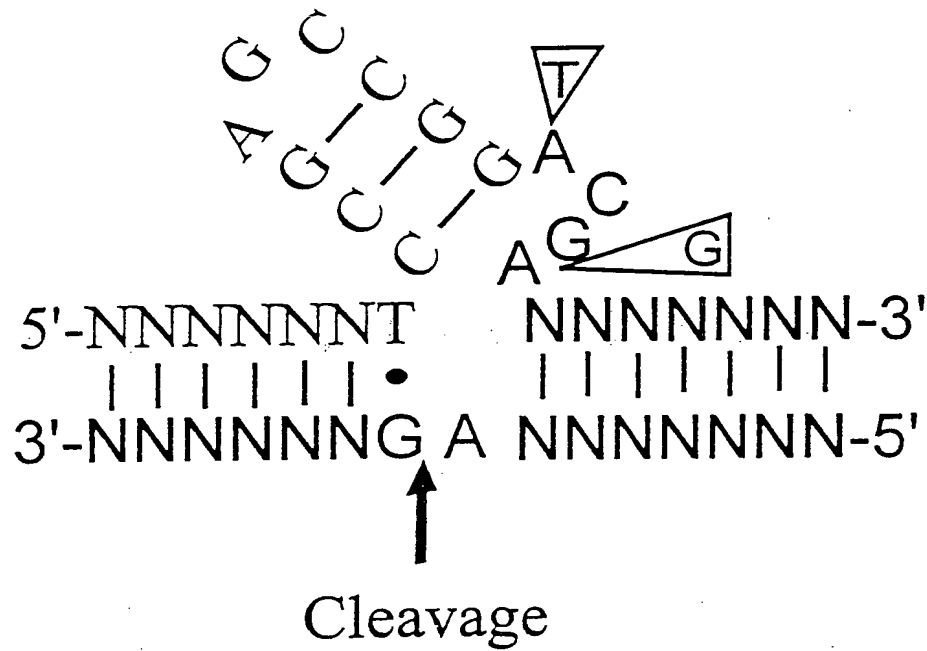


Figure 12

DNA-zyme: Prototype A

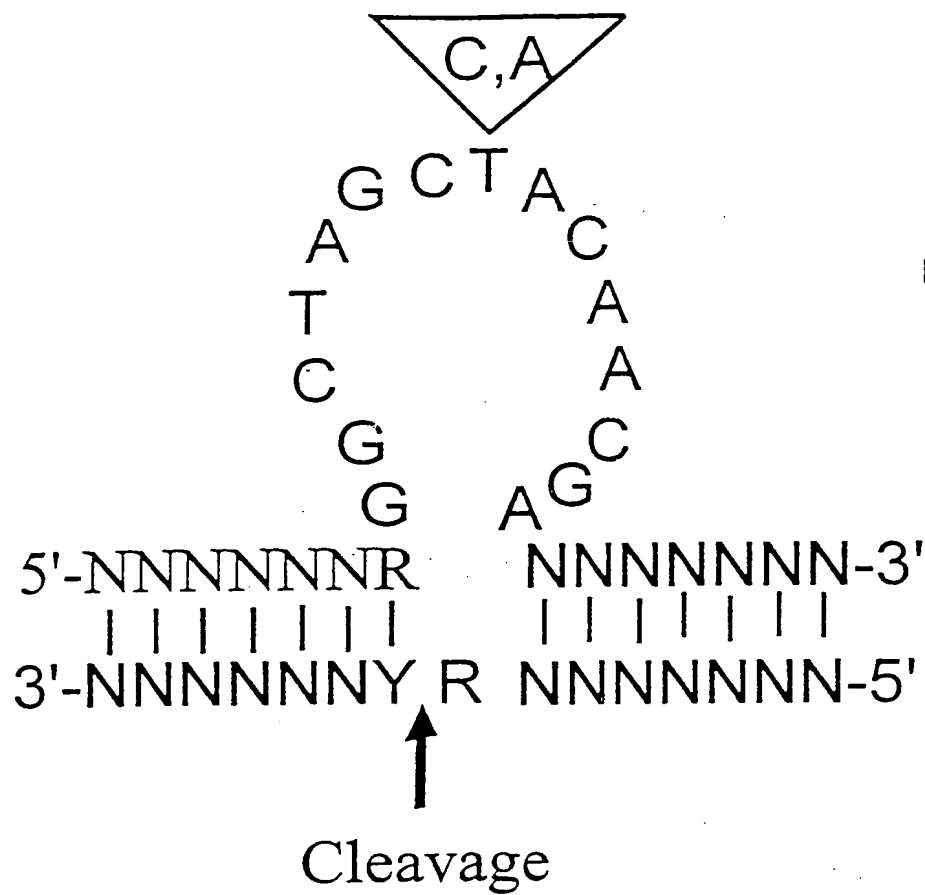


Figure 13

DNA-zyme: Prototype B

Figure 14

3'-NNNNNNNN N TGCTNNNNN

5'-NNNNNNNN ACGANNNNN

3'-NNNNNNNN N TGCTNNNNN

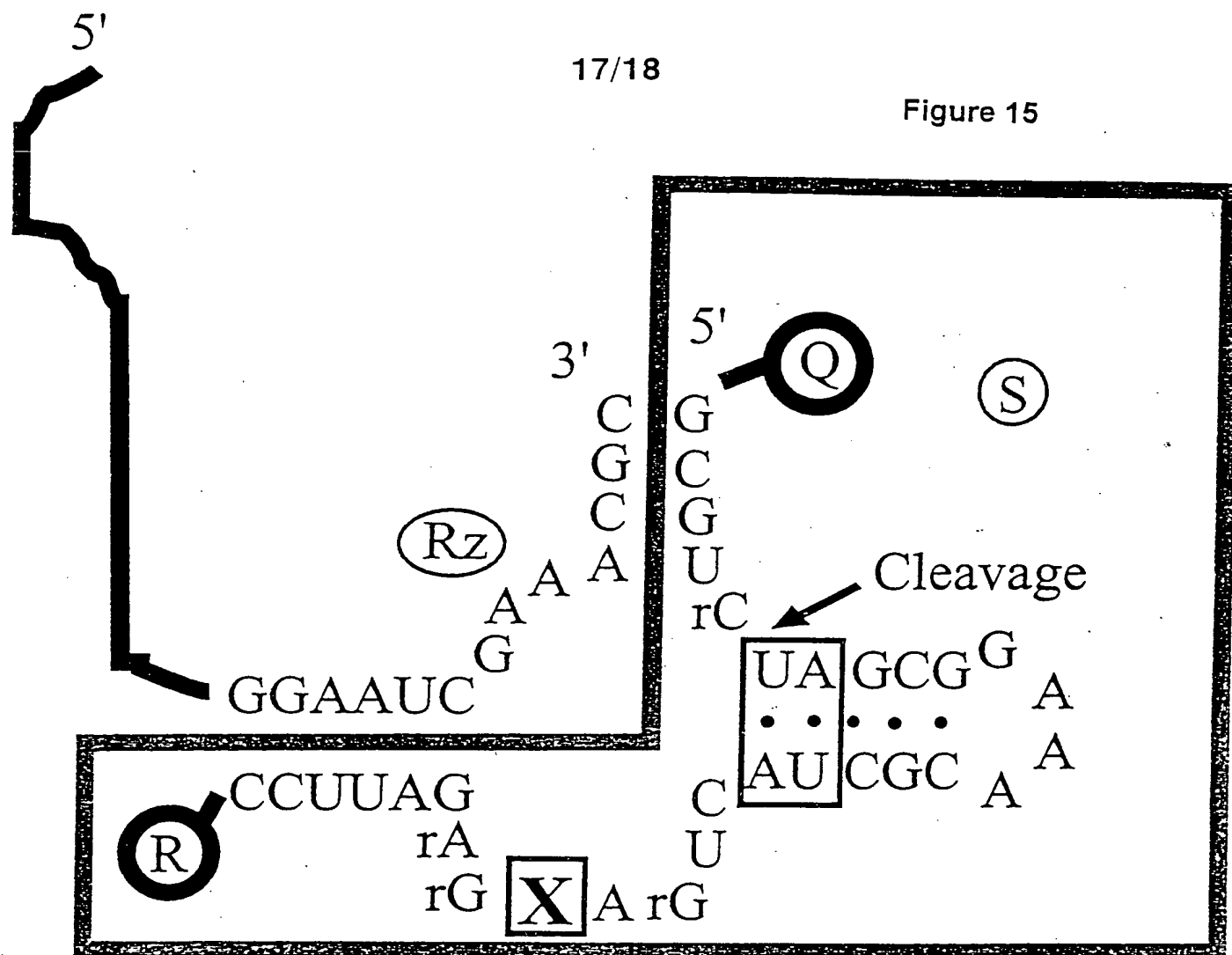
5'-NNNNNNN

ACGANNNN

Universal Ribozyme Probe

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Figure 15



R = FAM
HEX
TET
ALEXA

Q = TAMRA
CY-5
DABCYL
LCR

etc.

X = Pyridin-4-one

r = essential ribonucleotides

important: no (C,U)-A dinucleotide in loop



r = essential ribonucleotides

important: no (C,U)-A dinucleotide in loop